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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/217,740	12/21/1998	MIN CAO	10961260-1	4031
22878 75	590 08/28/2002			
AGILENT TECHNOLOGIES, INC. INTELLECTUAL PROPERTY ADMINISTRATION, LEGAL DEPT. P.O. BOX 7599			EXAMINER	
			OWENS, DOUGLAS W	
	M/S DL429 LOVELAND, CO 80537-0599			
				PAPER NUMBER
·			2811	
			DATE MAILED: 08/28/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Acti n Summary		09/217,740	CAO ET AL.			
		Examiner	Art Unit			
		Douglas W Owens	2811			
The MAILING Period for Reply	The MAILING DATE of this c mmunication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)⊠ Responsive to	o communication(s) filed on <u>06 A</u>	<u>ugust 2002</u> .				
2a)☐ This action is	FINAL. 2b) Thi	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
	and 4-6 is/are pending in the appl	ication.				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2 and 4-6</u> is/are rejected.						
7)						
	_ are subject to restriction and/or	election requirement.				
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C	. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
	ed (PTO-892) Patent Drawing Review (PTO-948) tatement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) latent Application (PTO-152)			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. The request for a continued prosecution application (CPA) under 37 CFR 1.53(d) filed on August 6, 2002 is acknowledged. 37 CFR 1.53(d)(1) was amended to provide that the prior application of a CPA must be: (1) a utility or plant application that was filed under 35 U.S.C. 111(a) before May 29, 2000, (2) a design application, or (3) the national stage of an international application that was filed under 35 U.S.C. 363 before May 29, 2000. See Changes to Application Examination and Provisional Application Practice, interim rule, 65 Fed. Reg. 14865, 14872 (Mar. 20, 2000), 1233 Off. Gaz. Pat. Office 47, 52 (Apr. 11, 2000). Since a CPA of this application is not permitted under 37 CFR 1.53(d)(1), the improper request for a CPA is being treated as a request for continued examination of this application under 37 CFR 1.114. See id. at 14866, 1233 Off. Gaz. Pat. Office at 48.
- 2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 6, 2002 has been entered.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 2 and 4-6 are rejected under 35 U.S.C. 102(b) as being anticipated by US patent No. 4,685,198 to Kawakita et al.

Regarding claims 1, 2 and 5, Kawakita et al. teaches a semiconductor isolation structure comprising (Fig. 2j):

a substrate:

a first and second device formed within the surface of the substrate;

an isolation region between the first and second devices, the isolation region comprising:

a deep region, comprising an oxide (42) with a cross sectional area;

a single shallow region which extends to the surface of the substrate, the shallow region comprising:

a protective outer wall (30) adjacent the substrate;

an inner sealing wall (32) exclusively within the shallow region and adjacent the protective outer wall;

wherein the shallow region has a shallow cross-sectional area; and the deep region has a cross-sectional area that is greater than that of the shallow region.

Regarding claims 4 and 6, Kawakita teaches an isolation structure, wherein the protective outer wall comprises an oxide and the inner sealing wall comprises a nitride.

Response to Arguments

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- 5. Applicant's arguments filed August 6, 2002 have been fully considered but they are not persuasive.
- 6. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., non-continuous deep regions of oxide) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Additionally, the oxide layer (42) has regions that each underlie a single shallow region.
- 7. The applicant argues that Kawakita et al. does not teach a single shallow region per isolation structure. The isolation structure that is formed between a first device and second device (See Figure 2j) only has one shallow region between the two transistors. There is nothing in the claims to preclude a continuous deep oxide layer from being connected to several shallow regions.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas W Owens whose telephone number is 703-308-6167. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 703-308-2772. The fax phone numbers for

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the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

DWO August 22, 2002

Staven Lako Primary Emminor

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